On page 12, please replace the paragraph beginning on line 19 with the following:

-- Peptide 5 (SEQ ID NO. 5) produced on a Wang resin(0.73 mmol/g, Applied Biosystems, Foster City, USA), using the Fmoc/*tert*-butyl strategy, as described, for example, by FIELDS *et al.* in *Int. J. Pept. Protein*, 1990, 35, 161, and HBTU/Hobt activation (see SCHNÖLZER *et al* in *Int. J. Pept. Protein Res.*, 1992, 40, 180) using a 431A Applied Biosystem peptide synthesizer (Foster City, USA). Protection of the side chains is provided by: His(Trt), Glu(O^tBu), Arg(Pmc), Lys(Boc) (SEQ ID NO. 6). Upon completion of the synthesis, the Fmoc group of the α-NH_2 function of the arginine is displaced in the presence of 20% piperidine in the DMF. The N,N'-tri(Boc)hydrazinoacetic acid 4 (1.2 eq) is then introduced manually using BOP activation *in situ* (BOP 1.2 eq, DIEA 3.6 eq in the DMF for 20 minutes), as described, for example, by GAIRI *et al.* in Tetrahedron Letters, 1990, 50, 7363. Alternatively, N,N'-di(Boc)-hydrazinoacetic acid could also be used. The peptidyl-resin is washed successively with DMF, dichloromethane, and then with ether. It is then dried at reduced pressure for 30 minutes.--

On page 16, please replace the header 1) on line 5 with the following:

--1) Synthesis of hydrazinopeptide 19(which includes VGFFKR) (SEQ ID NO. 2)—

On page 16, please replace the header 2) on line 29 with the following:

--2) Synthesis of lipopeptide 21(which includes KVGFFKR) (SEQ ID NO. 3)—

On page 17, please replace the header 1) on line 3 with the following:

--1) Synthesis of hydrazinopeptide 22 (which includes AKFEVNNPQVQRQAFNELIRVVHQLLPESSLRKRKRSR) (SEQ ID NO. 4).

On page 17, please replace the paragraph beginning on line 4 with the following:

-- Peptide 22 is prepared on a Fmoc-PAL-PEG-PS resin (0.16 mmol/g, Perseptive) according to the Fmoc/*tert*-butyl strategy and an HBTU/HOBt activation (see example 2) on a Pioneer-Perseptive peptide synthesizer. Protection for the side chains of the amino acids is as follows: His(Trt), Asn(Trt), Glu(O^tBu), Arg(Pbf), Lys(Boc), Ser(^tBu) (SEQ ID NO. 7). Upon completion of synthesis, the Fmoc group of the α-NH_2 function of the alanine is removed in the presence of piperadine at 20% in the DMF. The N,N'-tri(Boc)hydrazinoacetic acid (1.2 eq.) is then introduced manually using BOP activation *in situ* (BOP: 1.2 eq., DIEA: 3.6 eq. In the DMF for 20 minutes). The peptidyl-resin is washed successively with DMF, dichloromethane, and then ether. It is then dried at reduced pressure for 30 minutes. Cleavage of the peptide-resin link as well as deprotection of the side chains are carried out in the presence of a TFA/phenol/ethanedithiol/thioanisole/H_2O mixture (1 g of dry resin/10 ml of TFA/ 0.25 ml of ethanedithiol/0.25 ml of H_2O/0.25 ml of thioanisole/0.75 g of phenol) with stirring for 3h30 at ambient temperature. The peptide is precipitated in 200 ml of an Et_2O/heptane mixture (1/1) previously cooled down to 0°C. The precipitate is centrifuged and then dissolved in an H_2O/AcOH mixture (5/1), deep frozen and freeze dried, 263 mg of raw peptide are obtained from 0.072 mmole of resin.—

Please replace the second paragraph on page 18 starting at line 8 with the following:

--Peptide 22 and lipopeptide 23 were prepared as indicated in example 6. Peptide 22Sc ("scramble" version of peptide 22) has the following sequence: H_2N-NH-CH_2CO-PSRENQNAVKIQKLSVVLRREQKHRVERLAFRNQSLPF-NH_2 (SEQ ID NO. 8).—

If necessary, the Commissioner is hereby authorized in this, concurrent, and future replies, to charge payment or credit any overpayment to Deposit Account No. 02-2448 for any additional fees required under 37 C.F.R. § 1.16 or under 37 C.F.R. § 1.17; particularly, extension of time fees.

Respectfully submitted,

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LRS/KR
1217-0156P

Attachments: Paper and CRF Copies of Sequence Listing
Version of the Specification with Markings to Show Changes Made

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail, postage prepaid, in an envelope to: Commissioner of Patents and Trademarks, Washington D.C. 20231 on: April 14, 2003
(Date of deposit)

BIRCH, STEWART, KOLASCH & BIRCH, LLP

Sandra L. Pulos
(Signature)

April 14, 2003
(Date of Signature)